

CITY OF BURBANK

INTELLIGENT TRANSPORTATION SYSTEMS SPECIALIST

DEFINITION

Under supervision, to coordinate, implement, and maintain Intelligent Transportation Systems, such as fiber optic communication and closed circuit television networks; perform database management; and perform related work as required.

ESSENTIAL FUNCTIONS

Analyzes, configures, installs, operates, monitors, documents, and maintains the City's Intelligent Transportation Systems (ITS) including identifying and resolving operational problems and providing programming and support for various electrical and electronic devices, software, and peripheral equipment; configures, implements, and documents twisted pair, fiber optic, and wireless communications systems; conducts traffic studies and analysis of data including but not limited to traffic movement and safety; recommends changes to processes and procedures; writes reports; installs and maintains a variety of electronics, computerized traffic signal control devices, and associated equipment; inspects and monitors contract work on ITS equipment; maintains records; assists the public with questions and complaints on traffic related issues; drives on City business.

MINIMUM QUALIFICATIONS

Employment Standards:

- Knowledge of - principles of electricity, mathematics, and elementary characteristics of network telecommunication systems; proper English usage, spelling, grammar, and punctuation in order to effectively perform the essential functions of this classification (this is not a language restriction as defined in California Government Code Section 12951).
- Skill in - utilizing computers; interpreting wiring diagrams; preparing and understanding basic traffic engineering drawings, plans, and specifications; comprehending electronic logic diagrams, electrical drawings and specifications; operating calculators and engineering software related to the design and operation of traffic signals; operating standard electrician's hand and power tools and electrical/electronic equipment to test and maintain ITS devices; operating cable/fiber testing and splicing equipment, and communications and network equipment; utilizing geographic information systems, computer aided drafting and design, and various computer software.
- Ability to – make effective and rapid adjustments while operating equipment that controls and monitors multiple conditions; maintain accurate records and reports; perform tests and monitor correct functions of equipment; learn and apply knowledge of traffic signal systems; acquire a working knowledge of current State and Federal Standards for construction and operation of traffic signals; implement best practices for the construction and operation of traffic signals; communicate effectively both orally and in writing; establish and maintain effective working relationships.

Education/Training: Two years of college or trade school coursework in electrical technology, engineering, computer science, math, information systems or a related field and one year of

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experience in applied electrical, traffic or information systems analysis and design OR graduation from high school or equivalent and three years of current experience in applied electrical, traffic or information systems analysis and design.

Special Conditions & Requirements: Ability to perform essential functions of the classification, which include the ability to: move objects weighing up to 30 pounds, exert moderate physical effort, bend in all directions, climb stairs and ladders, walk on uneven surfaces, make field observations, remain in a stationary position for extended periods of time, review documents both on paper and computer monitor, have keen color perception, and have extensive exposure to video display terminals/computers.

License & Certificates: A valid California Class "C" driver's license or equivalent at time of appointment and International Municipal Signal Association (IMSA) Traffic Signal Technician Level I certification within one year of appointment.

SUPPLEMENTAL INFORMATION

None.